## Handling Large-Scale Unit Level Data Using STATA Professor. Pratap C. Mohanty Department of Humanities and Social Sciences Indian Institute of Technology, Roorkee Lecture No. 22 Extraction in Stata-II

Welcome friends once again to our NPTEL MOOC module on Handling Large-Scale Data Using Stata. In the last lecture particularly we discussed extraction of the raw data ASCII format data to usable format in Stata. Broadly we try to discuss 3 types of data availability in social science and even in other field. They are either available in free format data, which we have already discussed, delimited format data and the third one is called fixed format data.

So, last two we discussed already. The free format data has the space delimiter. Space is used for delimiting the data or differentiating the variable from one to another. Then, the delimiter data sometimes available with tab-delimited data or with comma-delimited data. There are two ways. One is called, the data availability is in the form of dot csv or dot tab.

So, we are going to discuss the third format which is mostly used in our research and that is called fixed format data. The fixed format files are text files. But unlike CSV files there is no separator between variables. So, those seems very clumsy and looped together and but very interesting to observe and separate this data through another supplementary file we are going to discuss this.

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Survey data often come in fixed format with one or more records per case and each variable in a fixed position in each record. So, that position is very clearly mentioned. For each variable fixed position space is clearly mentioned in the supplementary file we are going to discuss. This fixed format recognizes data items by column positions. The column position by their ranges also. The column positions are fixed for each row. We have row and column. So, the column position of that particular row is fixed in each particular row.

The data cannot be read directly, but a layout file is, as I just said couple of minutes back that it requires a layout file or a supplementary file, which explains how the data stored and most importantly how their position is defined.

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And the advantage of fixed format files is that they are smaller by space, no space is wasted by the separator or even by the comma which you used in the earlier formats, but here no space is consumed because of that. The disadvantage is that they are completely useless without the corresponding data dictionary. So, data dictionary we will also discuss. If there are many variables to be read, it is efficient to write a separator file to provide necessary information and this file is none other than called data dictionary which I will be going to discuss.

Like data dictionary may not be useful if you have a very small set of variables. But if you have large number of variables usually it is like NFHS covers more than 5,000 variables. So, 5,000 variables are very difficult to enter manually. You need to create a manual dictionary first, then that dictionary is going to be useful every time. In every short span of time, you can extract the data and get your right formatted, extracted data for your use.

So, a data dictionary is defined as the file that explain how the variables are read and write. In India, most of the large scale unit level raw datasets are published in this particular format. Some examples are NSS datasets, economic census datasets etc. we are going to show it.

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Let us understand the extraction of unit level data with a particular note that for this purpose we are using sixth economic census data that is the latest dataset on economic census is of sixth one, sixth round that is of 2013 and 14. The economic census provides the count of establishments including those in unorganized sector which have a huge contribution in Indian economy in terms of employment generations. It encompasses entire enterprises, economic census, entire enterprises in India.

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So, let us understand how it is positioned in the original data and how it is available in the dataset from the ministry if you are interested in downloading. I will show you how it is available. This is the one I wanted to show you. Reports, then state wise data in ASCII format, we will also show you supplementary documents, these three are going to be very very useful.

Reports are important because you need to cross check, reports are derived by their own experts who has developed the data. They took the help of the statisticians and also team of economist for the economic related data. And accordingly they derived the national reports or state wise reports as well and those are usually the base results for us from that particular dataset.

Once you have extracted your data, you need to cross check whether you have correctly extracted or not, you need to cross check with the original reports. So, reports contain, the dataset, the reports of that is here. Let me just show you. It is opened. This is of 390 pages and all India report of the sixth economic census is. It gives many information with important results. Representative information some very stylized results are derived for us to compare. So, once you go through you can understand what this contains.

Similarly, I am going to show you all those detail later, but if you just have a look, let it be for Jammu and Kashmir, you need to open through, right click on it and open it, properties, open with is not there, then it is, I will show you in other file. It is there. So, this one is also, right click on it, select this, we are selecting this first, ok, then notepad. So, this is the data for you and we are going to use it. And this is the original data available by the ministry for the public use for the researchers with certain minimum agreements they do without any charge and these are freely available. But it is very difficult to read from this ASCII or this txt data and we need to extract all that information to a Stata format.

Mark carefully that there is no space in between, no comma in between, no extra space is consumed as per our earlier two formats. We are going to extract it based on certain instruction, I wanted to show you. Likewise, we have shown you Uttarakhand with the state code 05 raw data. Other state you can also get it on your own from the ministry website. So, you will get all the information in detail for extraction.

The supplementary documents are very very important. Within that layout file, we are going to guide you in a short while. This is going to be very very useful. It contains in excel format as well as in PDF format. This is what I am going to guide you in my couple of slides. So, let us have patience and I will guide you from the slide first and I will tell you how to read in between the lines. So, this is the one which is displayed for you, is important and that I have already shown to you.

The report file gives information about the data that includes sampling procedure, the main respondents, the key finding from the survey etcetera. The file also helps in matching the results of analysis done by the ministry and your results.

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EC64_ST12_ARUNACHAL_PRADESH	07-06-2016 05:14 PM	DAT File	2,063 KB		
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EC6A_ST19_WEST_BENGAL	07-06-2016 05:26 PM	DAT File	3, 34, 500 KB		
EC6A_ST20_JHARKHAND	07-06-2016 05:29 PM	DAT File	36,178 KB		
EC6A_ST21_ODISHA	07-06-2016 04:21 PM	DAT File	1,18,317 KB		
EC64_ST22_CHATTISHGARH	08-06-2016 12:37 PM	DAT File	43,821 KB		
EC6A_ST23_MADHYA_PRADESH	08-06-2016 12:40 PM	DAT File	1,21,928 KB		
EC6A_ST24_GUIRAT	08-06-2016 12:44 PM	DAT File	2,25,030 KB		

This is the one I have already shown you. These are in ASCII format. We need to extract it for our use. The sample we have shown you.

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Each row in the dataset represent a single observation with varying information about its unit that each row here we will have to write each row is representing information about a single individual, single respondent. But here in our sixth economic census data, it is not individual, it is the enterprise. If I do any analysis, I will talk about the enterprise information. And without extraction it is impossible to do any meaningful analysis of this dataset.

Name	Date modified	Туре	Size
Ec6A_Report_Tabulation_Plan	17-08-2020 04:56 AM	File folder	
EC6A_Schedule	17-09-2019 04:20 PM	File folder	
EC6A_UNIT_LEVEL_Data_Layout	17-08-2020 04:57 AM	File folder	
District_Code_List	16-06-2016 04:52 PM	Microsoft Excel 97	149 KB
🔂 Guide_for_enumerators_and_supervisors	06-06-2016 06:40 PM	Adobe Acrobat D	902 KB
Instruction_Manual_EC6_2012_2013	06-06-2016 06:39 PM	Adobe Acrobat D	1,162 KB
🚯 Master_Directory_6EC	17-08-2020 05:15 AM	Microsoft Access	9,38,720 KB
NIC2008_3_DIGIT_CODE_LIST	20-06-2016 05:30 PM	Microsoft Excel 97	48 KB
🗑 State Code for 6th EC	20-08-2015 03:12 PM	Microsoft Word 9	47 KB

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So, this is what I have already shown to you. In addition to that, the three files, important files I have shown you. You might be confused, which code is it like 05, though we know that it is for Uttarakhand, you might be confused like district code list is given to you. Once you click it, the code number is visible to you. Similarly, NIC classification, enterprises without NIC classification is meaningfulness. There must be some standardization, some classification required. Three-digit classification information is given in sixth economic census dataset.

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- □ The most important file that is key to your work for extracting data are provided in the folder "EC6A\_UNIT\_LEVEL\_data\_Layout" that contains layout file in excel and pdf versions.
- □ The layout file guides how the data is arranged, which column gives what information.





And similarly other information, instruction manual is there if you read you will be guided accordingly. So, the focus is to understand the layout file which I just shown you couple of minutes back. And the most important file that is the key to your work for extracting data are provided in the folder called EC6A which I have just shown you, it is here. This is the one EC6, economic census 6A underscore unit level data layout that is the one is going to be very useful that contains layout file in excel as well as PDF version.

I have already shown you, this contains both the information. The layout file guides how the data is arranged and which column gives what information.

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District		3	4	2		
Tahsil/Taluka/P.S./Dev. Block Circle/Mandal		5	7	3		
Town/Village		8	11	4		
Ward Code No. (Only for Town)		12	15	4		
Enumeration Block No.		16	19	4		
Extended Enumeration Block No.(EBX)		20	21	2		
Use of Census House/Structure Code	2	22	22	1		
Inside HH	8	23	24	2		
Broad Activity Code	12	25	26	2		
NIC 3 digit Code	13	27	29	3		-
is it a handloom/handicraft activity?	14	30	30	1		- 11
Contraction Code	15	31	31	1		
Social Group	10	32	32	1		
Religion	18	34	34	1		
Nature of Operation	19	35	35	1		
Major Source of Finanace	20	36	36	1		
Male Hired	21	37	41	5		
Female Hired	22	42	45	4		
Adult Alexa blood	22	46	47	2		
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I have already opened. This is the sample of that. That I already opened to you. Let me guide it from here or from that once again for you. You can open in excel or in PDF. It does not matter. How to go for it? look at the state or union territory. The variable is occupying space starting with the first column is occupied for this till the second. The total digit number of bytes it consumed is 2. Till the 2 space in the entry of our raw data, in the raw data there are so many, without any space without any column, which I have already shown to you.

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Enumeration Block No.

Broad Activity Code

NIC 3 digit Code

Ownership Code

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Inside HH

Extended Enumeration Block No.(EBX)

Use of Census House/Structure Code

Is it a handloom/handicraft activity?

The first two for your sample information once again, I know that you might be confused for it, it is here. So, I will show you again, like this is the information we have already shown to you.

Now here our next one is like, here the first two look at this, for us, 05 we have already filtered. So, I am showing the 05 here. First two represents the state and union territories. The sample we are showing it for a particular state. So, if you see the original data and the file we are now extracting is the state that is Uttarakhand sub-file. Similarly, for Delhi you will get another code, for Orissa you will get another code, for Bihar you will get, the starting two code is for that only.

Then what comes next. The third position and the fourth position occupied for district and it occupies 2-byte space. Similarly, you can read in between the lines town, village, from 8 position to 11 position, if we can, in our command if you can attach this particular position then it will convert our data correctly. And this is very very essential. The byte position should be correctly written. If by any chance you have done a mistake here, at the time or result it is very difficult to track.

Though it might be extracted with certain other position, but other position will be named with another variable name and it might be problematic or it may be the case that your extraction is not successfully completed. However, we always suggest that you must enter these carefully while extracting. Then what comes next for us is the following. We will explain one by one and how to extract it.

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So, this we have already guided. Another tip is here for you. Always read the layout file very thoroughly as I mentioned. Another important file is schedule file. With schedule we are going to extract it. It describes the sequence of questions upon which information is collected. It also helps in labeling the variable that the variables values. So, schedule file, generally we called the questionnaire, the questionnaire gives all the set of information. We have already shown you earlier. But if you are again confused it is there, the schedule file.

Here is the schedule. The schedule files guide you, systematic direction for the questionnaire. It is being opened. Then instruction manual it might be also at the end of that as well. It has some content. Probably it is taking little time to open. Do not get confused by this. Since it is not opening, it might be taking little more time. But for you that it is the questionnaire, you need to read very thoroughly that what question follows next. Accordingly, the variables are also entered with their space. Understanding question from the questionnaire is very very important.

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Let us understand creating a dictionary file which is essential in case of this fixed format without that also you can operate. We are going to guide you. Let us launch the Stata and open a do-file editor from there we can do accordingly and third one write down the data structure as specified in the layout file. Here we have mentioned for you. You just mark carefully in fixed dictionary then all those entries. look at here this data since is in string format and we have written str then state with their position 1 to 2 then district then 3 to 4 then 5 to 6.

If you want small set of variables, you need not mention everything. You simply mention those variables for your use for extraction. No need to include everything here. At the end, you have to, in the dictionary dot dct file or dictionary file you need to end with this bracket. Then only it will ready. We are using string type of consistent extraction. You can use other preferable storage type as well. Let me show you that, the dct file which we wanted to show you here from the Stata, you can open the do-file you can create here and accordingly you can go. I can open that, you can type accordingly and save as in a dct, but I am just opening it. File open simply.

But dct has to be there. All file let me open that, it will open automatically. So this is the format for the dct. In fixed dictionary you need to write down and then starting with a bracket and go by this ordering. Try to follow this ordering as per the standard suggestion. It will give the extraction. what I will do, I will guide it from the PPT.

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Otherwise, dct file can be also opened, once you have opened the dct file or then the do-file once you have typed your command then you just save it. Then save as the way I just said here that you simply file save as. If it is not in dct file initially in its do command, you need to save it save as dct. You need to go for dct, like here dictionary. You have to save it. Then only it will read. I will guide you from the PPT. likewise, dct has to be entered. Then you save it.

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There are 3 methods of extracting the fixed format data. First is, once your dct file is ready, you can take the use of dct file. You launch the Stata file then import then text data in fixed format, it

has to be mentioned. Then browse the particular dct file, I will tell you right now, if you have created a dct file. Else you simply click on the specifications, specification I will also guide you, type a chosen variable name along with storage type or the column position accordingly if you can define manually.

Browse your dataset file that is which dataset we are going to extract, isn't it, then file name, browse the file name of that particular dataset which you wanted to extract as we have not specified it in the dictionary file if it is not specified. If it is specified, then dictionary file will automatically read the file name. The check on replace data memory if there is any, already opened data file then you submit okay. I will show you right now.

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This is the one. We have already open one dataset. Either you clear this first, otherwise you simply go there and we have option. File, then import, text data in fixed format, there are two way giving, one is for our dictionary file, use dictionary file, click that. So, dictionary file as I told you already you have already saved as dot dct, just double click on it. It will save. Specification is not required at this moment because we are going through the dct file. Dct we have already given the specification. But if have not created a dct file then you have to enter the specification. We are going to guide you.

What is the dataset you wanted to extract, since our dct is for the Uttarakhand, specifically for the state, we have accordingly guide the particular fixed format data that is available for Uttarakhand? I have already shown you by state wise differences. We have only taken Uttarakhand here. what I will do, I will show you the Uttarakhand one. So, it is extracted one. We extracted it and we will show you here. This is the one Uttarakhand, we have opened it, isn't it? So, this is dot dat format.

If you submit, then, since a database was already been opened, it will be creating overlapping and some confusion, error will come, so replace the data in memory, whatever is there it will replace it and simply okay, it will extract. Your data is extracted with the help a dct file we created. This is your data and better to extract in string that then later on you can destring it and use it for your purpose. (Refer Slide Time: 24:32)

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Then second aspect, second approach you just look at carefully. If it is not there, likewise, this is the first one we have already experimented it and shown you the extraction.

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The second approach is, use the infix command. Infix command is useful for fixed format data and generally the database is available in fixed format nowadays. So, the sample the way how the data looks like you can also understand yes this is in fixed format data. So, that way you can also observe. So, use infix command without data dictionary. If it is not there, then data dictionary you have not created you have the byte space of the particular variable, their position and you can also extract it.

Suppose, and generally this is one, this approach is done when you have a limited variable. You want limited variable extraction, but you can manually do it, no need to create a dictionary file. But it is always suggested that you please take the advance approach, dictionary is always suggested for you. But let us copy this format right now, simply copy. Copy infix from infix till clear. I am just copying it, starting till end. This is there. So, now it will work.

So, what I will do, I will change this here. So the next slide we have, still it is coming. Let me change to then visible automatic, if I do it, it will come, now copy, you will need to end this, you can able to copy from here. If you go on that particular page, you will be able to copy that command. We are deliberately doing it to save your time. And the crux is that we know the position. If you do not know, please do not simply copy and run, it will not work.

Now we have copied it and we will operate this in our Stata, here is our Stata. What I will do, I will clear the data first. First clear, already clear is there in the command. How many variables

we have copied? We have copied state 1, then 2, then tehsil 3. Another variable also EC6A underscore ST05. But this is the file name of that particular.

So, we have selected the variable first, whichever the variable you want to select, you want to extract and using is very important, using the source of that particular file. Source is important. You cannot just simply assume that this is your right source, because we are operating from another system. We have given a standard command as per our own laptop. I have to change this using file. Using source has to be given.

So, I am deliberately deleting it for your better understanding. Using file, where is our using file available, it is available in our data, here. So, using file, what is that using file, this is the one. This is the using file, Uttarakhand, not extracted, but this is the original data, this is the one, yes. The raw data, we want the raw data to be extracted. What is the file name? You need to copy this, right click here, copy address then I am going to paste it. So, right click here and paste. So, the path name has already copied. What next comes, you require the file name. So, file name, you just simply copy it, right click and copy. It has already been copied. So I am going to paste it here.

What is this file, it is in dta, dat file? So original, so file, how to know that dat is there already. It is clearly written dat file. So, you have to mention that it is in dat file. if you enter your data will be ready. So, your data is ready like this. it has been extracted. mark it very carefully. we have extracted based on our 3 variables. So, three variables information is there for you in our window, only 3 variables. And this is interestingly, you have not created a dictionary file.

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I am going to guide you that what other options are there in front of us. We have only the limited operations are there for your clarity. We have already guided you this. Stata reads string variable state from column one through column two that I have already told you please mark my directions very carefully. Since the infix recognizes a data item by its column range not by a delimiter, as I told you already from the beginning, there is no delimiter. Column range is mentioned in our layout file. Layout file we already guided.

Users may skip variables or ignore the order of variables. So, order of variable need not be mentioned because we are specifying their order by the position one through two or through 5 or 6 whatever is given in the layout file accordingly. So, order is not necessary. It is very important to note. You may also select observations to be read using the in or if qualifier there. If those qualifiers are mentioned, then we will also mention accordingly.

So, like in our data you want only 100 observations, so this is basically if qualifiers command we are going to give it. So, infix then the same format, everything is same except we are adding here one thing that is this. I am going to select this for your use that 100, 1 through 100. 100 observations it will automatically extract to 100. So I am not going to experiment right now. You can do it on your own. If you have difficulties, please raise.

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The third method is also important. Use infix command with data dictionary. If there are many variables in a complicated format, you can benefit from writing a data dictionary. This approach is highly recommended for the purpose of data management.

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So, like in the infix command itself you can add the dictionary, the complete extraction command. So, infix using dictionary file, two times using dictionary because you want dictionary file. This is the command we can give it in our Stata. You can copy this, except this three slash, this is not required. Then you simply copy and paste it. But make sure that you are using the right using file as well as write dictionary path. This is very very important. But if you do not use this correctly, it will be erroneous. We can experiment that as well, because infix you can copy that. You can copy this. Infix, we are copying it.

Most importantly the parenthesis is very very important. Raw data files name should be always in parenthesis. That is another important instruction. Otherwise, Stata will throw an error. We have now copied it. So, what I will do, we will go to Stata. So we will paste it here. This can be avoided. We need to change the path. So, path we will get it the way we did. So the path we did like we have to copy the path of that from the data file, first the dct file should be understood. First one is dct. Here is the dct. So dct, you copy that. We are copying the path. So, we are pasting it in our Stata. So, we are putting the path here.

We are getting the dct file to be copied. Complete dct file to be copied. We have copied also this and we have put. Dot dct is already in the file name. So, we have to keep that plus we need to add dot dct, because path name has to be correctly retain. So, two times dot dct, do not get mislead by two times, because in our file name itself we have written as dot dct. we are using the using file that is the raw data file. Raw data file format I already told you.

The data it is here. It is the raw data. We are copying the path of that raw data once again, copying the address for you. And the address is in G file, G colon forward slash then the file name. So, we are putting the file name with extension, the dat extension. It is in dat file, comma then clear. Clear we have already given whatever is already saved in the memory, this will be deleting and giving us a final extraction.

You must start with an empty dataset is still saying that, I think, so the problem is coming. The clear, first of all we cleared the command. The dct, it will read. I think let me first read, no, I think there is one thing missing from the. This is the one. You need the dct file. you have seen this once again. Where is that, So, we are going to use the same command once again. Then parenthesis is clearly written. Parenthesis will be read for sure.

What happens since it is, what we do we will first discuss, no, we will first close the Stata and we will reopen it. Because you have already stored the extraction, we will reopen the Stata and do it. It is possible. We already did it on our own. So, this is the one. We are going to open it. I think if you paste it, infix using then the dct path name, dct path name is here, the G, it is in G, then dct name should be also copied.

This is the one. Entire has to be copied right now and we have copied right now and pasting it here with dot dct. Then it ends with inverted comma then using the file name, the file name within bracket is important and copied the path again and file name you can. This is the one, dot dat bracket close. The file this dictionary not found.

So, two times dot it does not take. So, we have finally experimented it with the right command. let me correctly specify you and mention you and guide you how you have done it. You have extracted it. So, the file name should be correctly mentioned. So, the .dct should be written, but in the file name two times dct is creating some problem. So, better to mention, file name should not be entering with a special character. So, it has to be file then ended with your extension. Extension two times you are entering, so there was some problem. We did it and you can follow accordingly.

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So, another approach is simply, this is the one if you enter it you extract it. Otherwise, in the dictionary itself if you enter in fixed dictionary using this file name here itself and after mentioning all those dictionary commands, dictionary syntax if you run, it will also execute with the extraction. So, these are all converting to the result and giving you the right data.

So, what I wanted to mention at the end for this extraction is that infix command is very very important and all the dataset available in infix command. There are approaches you can follow. We will always suggest that you use the dictionary, dot dct approach and that is going to be very

useful and you have to make it very confidently and to be very handy with the dictionary and that will be very, very useful for your better result and quick results.

And this is all for today for extraction. In the next class we will have important aspects as well called combining datasets, merging and appending that is very very important for researchers in social science and other discipline as well. With this, let me close here friends. Thank you so much.